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| | | <u>Metal</u> Metal | 1.863 | 0.073 | | 90 | Ž. | | al Stud Wall | | <u>lior Center</u> lior Center | |
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| # | Туре | | | | U-Fac. | | | SHGC | Glazing T | (be | | tion / Comments |
| | Skylight Window | | | 140 | 0.890 0.670 | 13 13 | | 0.40 | Double Metal Low-E Double Metal Low-E | | Senior Cente Senior Cente | |
| | Window | | | 52 | 0.820 | 13 | | 0.40 | Double Metal Low-E | | Senior Cente | |
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| | Window Window | | | 473 54 | 0.670 0.820 | 22 22 | | 0.40 | Double Metal Low-E | | Senior Cente Senior Cente | |
| 7 | Window | | | 120 | 0.800 | 22 | | 0.40 | Double Metal Low-E | | Senior Cente | |
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| 9 1 N | Window Window | | | 397 | 0.800 0.870 | 31 45 | | 0.40 | Double Metal Low-E | | Senior Cente Senior Cente | |
| 11 | Window | | | 376 | 0.820 | 45 | j | 0.40 | Double Metal Low-E | | Senior Cente | |
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|-------|---------|--|----------|------------|
| OJECT | NAME | Mountian View Senior Center | DA | 2/11/2005 |
| DE | SCR | IPTION | Designer | Enforcemen |
| X | 118(a) | installed insulating Material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20, Chapter 4, Article 3. | | |
| X | 118(c) | All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 767 of Title 24, Part 2. | | |
| X | 117(a) | All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise scaled. | | |
| X | 116(b) | Site Constructed Boors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors). | | |
| X | 116(a)1 | Manufactured Boors and Windows installed shall have air infiltration rates not exceeding those shown in Table Number 1-E. of the Standards. Manufactured fencetration products must be labeled for U-value according to NFRC procedures. | | |
| X | 118(a) | Demising Wells in Honresidential Buildings: The opeque portions of framed demising wells in nonresidential buildings shall have insulation with an installed R-value of no less than R-11 between framing members. | | |
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| PROJECT NAME | | | | | DATE | |
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| Mountia PROJECT ADDRESS | n View Senior Cente | <u>or</u> | | | 2/11/2 | 2005 |
| 266 Esc | uela Avenue Moun | tain View | | | Building Perm | |
| PRINCIPAL DESIGNER - MECHA Lefter E | inical ngineering, Inc. | | TELEPHONE 415-4 | 57-4220 | Containing Form | |
| DOCUMENTATION AUTHOR | Y CALC CO. | and Casan Adolesia Association and the Association of the Association and Association Association (Association | TELEPHONE | 457-0990 | Checked by/ | |
| GENERAL INFORMATIO |)N | | | | patasat - 11 sate - 110 cites | |
| DATE OF PLANS | ······································ | IONED FLOOR AREA | 22,870 | CLIM | ATE ZONE | |
| BUILDING TYPE | X NONRESIDENTIAL | HIGH RISE RESI | | | MOTEL GUEST RO | OM |
| PHASE OF CONSTRUCTION | X NEW CONSTRUCTION | ADDITION | ALTERATION | | G + ADDITION | |
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| STATEMENT OF COMP | | NOO LITELY LI LIQUII | Livello | L OUNI CARIOL | mmonto | |
| | nce lists the building features | s and performance spec | ifications needed | to comply with | Title 24, | |
| Parts 1 and 6 of the Californ | nia Code of Regulations. Thi | s certificate applies only | y to building mech | nanical requiren | nents. | |
| | | | | | | |
| The documentation prepare | er hereby certifies that the do | cumentation is accurat | e and complete. | | | |
| DOCUMENTATION AUTHOR | | SIGNATURE | and the same of th | | DATE | • |
| | 1044 | St. Car | Section and the second section in the second | The second second | 7. 4.7.7.6 | |
| Tisha Sto | | 42. C. A. | | | | |
| The Principal Mechanical D | esigner hereby certifies that | t the proposed building (| design represente | d in this set of | construction | |
| The Principal Mechanical D | | t the proposed building (| design represente | d in this set of | construction | |
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| ROJECT NAME Mountian View Se | enior Cer | nter | | | | | Di | ATE 2/11 | /2005 | |
|--|--|------------------------|--|--------------------------|---------|------------------------------|---------|-------------------------------------|---------------------------------------|--|
| YSTEM FEATURES | J. 1101 | 11.01 | | | | | | a r 1 11 | | |
| | | | | MECHANICAL SYS | TEMS | a | | |] | |
| SYSTEM NAME | | Chiller | | Hot Water Boile | | DH | ₩ He | ater | MOTE TO | |
| TIME CONTROL | | n/a | | n/a | | | n/a | | | |
| SETBACK CONTROL | | n/a | | n/a | | | n/a | | | |
| SOLATION ZONES | | n/a | | n/a | | | n/a | | | |
| HEAT PUMP THERMOSTAT? | | n/a | | n/a | | | n/a | | | |
| ELECTRIC HEAT? | | n/a | | n/a | | | n/a | | | |
| | | nva | | n/a | | | n/a | | | |
| FAN CONTROL VAV MINIMUM POSITION CONTROL? | | n/a | - | n/a | | | n/a | | | |
| | | | | | | | | | | |
| SIMULTANEOUS HEAT/COOL? | | n/a | - | n/a -/- | | | n/a | · | | |
| HEATING SUPPLY RESET | | n√a | | n/a | | | n/a | | | |
| COOLING SUPPLY RESET | | n/a | —————————————————————————————————————— | n/a | | | n/a | | | |
| HEAT REJECTION CONTROL | | n/a | | n/a | | | n/a | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| VENTILATION | | nva | ——— - | n/a | | | n/a | | | |
| OUTDOOR DAMPER CONTROL | | n/a | | n/a | | | n/a | | | |
| ECONOMIZER TYPE | | n/a | | n/a | | | n/a | | | |
| DESIGN O.A. CFM (MECH-3, COLUMN I) | | n/a | | n/a | | | n/a | | | |
| HEATING EQUIPMENT TYPE | | n/a | | Gas Fired | | G | as Fire | ed | | |
| HEATING EQUIPMENT EFFICIENCY | | n/a | _ | 81 % | | | 95% | | | |
| COOLING EQUIPMENT TYPE | <u> c</u> | entrifugal | | n/a | | | nva | | | |
| COOLING EQUIPMENT EFFICIENCY | 1.3 | 20 k/Wton Air Coole | L Chilar | n/a BRYAN AB-120 | 5 | A COM | n/a | TH-150 | | |
| MAKE AND MODEL NUMBER | 1121011 | MI CODIE | | OR 1814 NO-121 | J | AUSM | | 117130 | | |
| PIPE INSULATION REQUIRED? | | Yes | | Yes | | | Yes | | | |
| PIPE/DUCT INSULATION PROTECTED? | | Yes | | Yes | | | Yes | | | |
| HEATING DUCT LOCATION R-VALUE | n/a | | n/a n/ | 'a | n/a | n/a | | n/a | | |
| COOLING DUCT LOCATION R-VALUE | n/a | | n/a n/ | a | n/a | n/a | | n/a | | |
| VERIFIED SEALED DUCTS IN CEILING/ROOF SPACE | | n/a | | n/a | | | n/a | | | |
| | | | | | | | | | | |
| CO | DE TABLES | : Enter co | de from tab | le below into colun | nns abc | we. | | | | |
| HEAT PUMP THERMOSTAT? | | | CONTROL | SETBACK CTRL | . IS | OLATION ZO | | | MTROL. | |
| ELECTRIC HEAT? | | S: Prog. O: Occu | | H: Heating C: Cooling | | ter Number o Jation Zones | | t: Inlet Vanes P: Variable Pitch | | |
| VAV MINIMUM POSITION CONTROL? | | Sens | or | B: Both | | isulduon cuncs. | | V: VFD | | |
| SIMULTANEOUS HEAT / COOL? | Y: Yes N: No | M: Manual Timer | | | | | | O: Other C: Curve | | |
| HEAT AND COOL SUPPLY RESET? | | B: Air Ba | ILATION Jance | OUTDOOR DAMP! A: Auto | ER A: A | ECONOMIZE Ur | | O.A. CFM Enter Outdoor Air | | |
| HIGH EFFICIENCY? PIPE INSULATION REQUIRED? | | C: Outside Air Ce | | G: Grawity | W: | Water lot Required | | CFM. Note: This shall be no | | |
| PIPE/DUCT INSULATION PROTECTED? | | D: Dema | Vir Measure Ind Control | | EC: | Economizer | | less than (| | |
| SEALED DUCTS IN CEILING/ROOF SPAC | E? | N: Natur | | | | ntroi See Sec I(e)3 | :tion | MECH-3. | | |
| IOTES TO FIELD - For Building D | epartmen | Use Or | ıly | | | | | | | |

| RECONTROL Programmable Switch Heating Required N/9 ACCONTROL AND MINIBRIM POSITION CONTROL? AND MINIBRIM POSITION CONTROL AND MINIBRIM POSITION CONTROL AND | Mountian View Ser STEM FEATURES STEM NAME ME CONTROL CHACK CONTROL OLATION ZONES EAT PUMP THERMOSTAT? ECTRIC HEAT? IN CONTROL AV MINIMUM POSITION CONTROL? MULTANEOUS HEAT/COOL? EATING SUPPLY RESET DOLING SUPPLY RESET | AHU-1 Prograi Heat | Mech Sy mmable ling Requ n/a n/a n/a stant Volu Yes | Switch Irad | MECHANICAL SYS | STEMS | | | NOTETO |
|--|---|--------------------|--|-----------------|---------------------------------------|--------------|---------|-------------|----------|
| AHLU-1 Mach System Programmable Switch Heating Required N/a AN CONTROL AN CONTROL Yes IN/a Constant Volume Yes Coldest Zone Warmest Zone Alf Balance Alf Bala | STEM NAME ME CONTROL CIBACK CONTROL OLATION ZONES EAT PUMP THERMOSTAT? ECTRIC HEAT? AN CONTROL EV MINIMUM POSITION CONTROL? MULTANEOUS HEAT/COOL? EATING SUPPLY RESET DOLING SUPPLY RESET | Prograt Heat Cons | mmable iing Requ n/a n/a n/a stant Volu Yes | Switch Irad | MECHANICAL SYS | TEMS . | | | |
| THE CONTROL Programmable Switch Hasling Required AND | ME CONTROL CHACK CONTROL CLATION ZONES CAT PUMP THERMOSTAT? ECTRIC HEAT? IN CONTROL AV MINIMUM POSITION CONTROL? MULTANEOUS HEAT/COOL? CATING SUPPLY RESET COLING SUPPLY RESET | Prograt Heat Cons | mmable iing Requ n/a n/a n/a stant Volu Yes | Switch Irad | MECHANICAL SYS | STEMS | | | |
| INTECONTROL France Control F | ME CONTROL CHACK CONTROL CLATION ZONES CAT PUMP THERMOSTAT? ECTRIC HEAT? IN CONTROL AV MINIMUM POSITION CONTROL? MULTANEOUS HEAT/COOL? CATING SUPPLY RESET COLING SUPPLY RESET | Prograt Heat Cons | mmable iing Requ n/a n/a n/a stant Volu Yes | Switch | | | | | |
| Healing Required has been been been been been been been bee | ETHACK CONTROL OLATION ZONES EAT PUMP THERMOSTAT? ECTRIC HEAT? IN CONTROL IV MINIMUM POSITION CONTROL? MULTANEOUS HEAT/COOL? EATING SUPPLY RESET DOLING SUPPLY RESET | Cons | ing Requ n/a n/a n/a n/a stant Volu Yes | ired | | | | | |
| SOLATION ZONES BAT PUMP THERMOSTAT? ACCOMMISSION CONTROL? AND MINIMUM POSITION CONTROL? AND MINIMUM POSITION CONTROL? AND CONTROL AND MINIMUM POSITION CONTROL? AND CONTROL AND CON | OLATION ZONES EAT PUMP THERMOSTAT? ECTRIC HEAT? IN CONTROL AV MINIMUM POSITION CONTROL? MULTANEOUS HEAT/COOL? EATING SUPPLY RESET DOLING SUPPLY RESET | Cons | n/a n/a n/a stant Volu Yes | | | | | | |
| EAT PUMP THERMOSTAT? LECTRIC HEAT? AN CONTROL Constant Volume Yes Constant Volume Constant Volume Yes Constant Volume Constant | EAT PUMP THERMOSTAT? ECTRIC HEAT? IN CONTROL IV MINIMUM POSITION CONTROL? MULTANEOUS HEAT/COOL? EATING SUPPLY RESET DOLING SUPPLY RESET | Co | n/a n/a stant Volu Yes | ıme | | | | | 1 |
| AM CONTROL AM CONTROL AM MINIMUM POSITION CONTROL? Yes SIGNUL TANCOUS HEAT (COOL?) SEATING SUPPLY RESET COLING SUPPLY RESET Warmest Zone Warmest Zone AI Falance AI Falance AI Falance AI Falance AI Falance Diff. Tamp (Integrated) 16889 cfm None 16889 cfm None 16889 cfm None 16889 cfm None 16889 cfm Var AMERICANOPH (MECH-3, COLUMN I) EATING EQUIPMENT EFFICIENCY COOLING EQUIPMENT EFFICIENCY MAKE AND MODEL NUMBER PERING COLUMN I TYPE COOLING EQUIPMENT EFFICIENCY MAKE AND MODEL NUMBER PERING DUCT LOCATION I R-VALUE COURS SUPPLY RESET Vas Vas Vas Vas Vas Time Control SETBACK CTRL SOLATION ZONES FAN CONTROL SETBACK CTRL SOLATION ZONES FAN CONTROL Y Yes Vas Service Cooling Distribution Zones Enter Number of Solidation Zones Service PERIL RESIDENCY Y Yes TIME CONTROL SETBACK CTRL SOLATION ZONES Enter Number of Solidation Zones En | ECTRIC HEAT? IN CONTROL AV MINIMUM POSITION CONTROL? MULTANEOUS HEAT/COOL? EATING SUPPLY RESET DOLING SUPPLY RESET | Co | n/a stant Volu Yes | ime | | | | | |
| AN CONTROL AN CONTROL AN INMUL TANEOUS HEAT COOL? SEATING SUPPLY RESET COULING SUPPLY RESET COULING SUPPLY RESET DESIGN OA. CFM (MECH.3, COLUMN I) EATING SOUPMENT EFFICIENCY COOLING SOUPMENT FFICIENCY COOLING SOURMENT FROM STAT? EATING SOURT LOCATION R-VALUE COOLING SOURMENT FOR SOURMENT COOLING SOURMENT FROM STAT? ELECTRIC HEAT? COOLING SOURMENT FOR SOURMENT COOLING SOURMENT FROM STAT? ELECTRIC HEAT? COOLING | IN CONTROL AV MINIMUM POSITION CONTROL? MULTANEOUS HEAT/COOL? EATING SUPPLY RESET COLING SUPPLY RESET | Co | stant Volu Yes | ıme | | | | | |
| AV MINIMULM POSITION CONTROL? Yes COLOR SUPPLY RESET COLOR SUPPLY RESET COLOR SUPPLY RESET Warmest Zone Warmest Zone Warmest Zone Auto Auto Diff. Temp (Integrated) 16988 cm 1698 cm None COLOR GOUPMENT TYPE COLING GOUPMENT TYPE COLING GOUPMENT EFFICIENCY ANKE AND MODEL NUMBER COLING GOUPMENT EFFICIENCY PUPE INSULATION PROTECTED? Warment Zone Built-Up VAV Infa COLING GOUPMENT EFFICIENCY ANKE AND MODEL NUMBER COLING GOUPMENT EFFICIENCY ANAE AND MODEL NUMBER COLING GOUPMENT EFFICIENCY ANKE AND MODEL NUMBER AND MODEL NUMBER COLING GOUPMENT EFFICIENCY ANKE AND MODEL NUMBER COLING GOUPMENT EFFICIENCY ANKE AND MODEL NUMBER CO | MULTANEOUS HEAT/COOL? EATING SUPPLY RESET COLING SUPPLY RESET | Co | Yes | ıme | | | | | |
| IMILITANEOUS HEAT/COOL? IEAT ING SUPPLY RESET Coldest Zone Warmast Zone Marmast Zo | MULTANEOUS HEAT/COOL? EATING SUPPLY RESET DOLING SUPPLY RESET | | | | | | | | |
| EATING SUPPLY RESET Coldest Zone Warmest Zone Warmest Zo | EATING SUPPLY RESET COLING SUPPLY RESET | | Yes | | | | | | |
| DOLING SUPPLY RESET Warmest Zone A/A AIR Balance Auto AIR Balance Auto Diff. Temp (integrated) Diff. Temp (integr | OOLING SUPPLY RESET | | | | | | | | |
| DOLING SUPPLY RESET Warmest Zone A/a Alr Balance Auto Alr Balance Auto Diff. Temp (Integrated) Diff. Temp (Integr | OOLING SUPPLY RESET | | idest Zor | ie | | | | | |
| JEAT REJECTION CONTROL AND A PARTILLATION AIR Balance Auto Auto DISTINUATION AIR Balance Auto DISTINUATION AIR Balance Auto DISTINUATION AIR Balance Auto DISTINUATION AIR Balance Auto DISTINUATION AUTO 16989 cfm None None None ATTING EQUIPMENT EFFICIENCY DISTINUATION PROTECTION AMAGE AND MODEL NUMBER PRE INSULATION PROTECTION FATING DUCT LOCATION R-VALUE COOLING D | | r | | | | | | | |
| Auto DITITOOR DAMPER CONTROL CONOMIZER TYPE DESIGN O.A. CFM (MECH-3, COLUMN I) EATING EQUIPMENT TYPE EATING EQUIPMENT TYPE OCOLING EQUIPMENT TYPE BUILLUP VAV DOULING EQUIPMENT TYPE COOLING EQUIPMENT TYPE BUILLUP VAV DOULING EQUIPMENT TYPE COOLING EQUIPMENT TYPE BUILLUP VAV DOVERNAIRE OVERNAIRE PPEINSULATION PROTECTED? EATING DUCT LOCATION R-VALUE COOLING COOLING R-VALUE COOLING DUCT LOCATION R-VALUE COOLING DUCT | | | | | | | | | |
| DUITDOOR DAMPER CONTROL CONOMIZER TYPE DESIGN O.A. CFM (MECH-3, COLUMN I) 16989 cfm None PATING EQUIPMENT TYPE None PATING EQUIPMENT TYPE DOOLING EQUIPMENT TYPE Built-Up VAV PAS POPERATION REQUIRED? | ENTILATION | Al | | , 1 | | | | | |
| ECONOMIZER TYPE DIM. Tamp (Integrated) 1 6989 cfm None PATING EQUIPMENT TYPE Built-Up VAV DOULING EQUIPMENT TYPE COOLING EQUIPMENT EFFICIENCY MAKE AND MODEL NUMBER PER INSULATION PROTECTED? PEATING DUCT LOCATION R-VALUE COOLING DUCT LOCATION R-VALUE DUCTS IN ARTIC 4.2 DUCTS IN ARTIC 4.2 DUCTS IN ARTIC COOLING NO IN MARINATION R-VALUE COOLING DUCT LOCATION R-VALUE COOLING DUCT LOCATION R-VALUE DUCTS IN ARTIC COOLING NO IN MARINATION R-VALUE COOLING DUCTS IN CONTROL? Y. Yes No IN MARINATION R-VALUE COOLING DUCTS IN CONTROL? Y. Yes No IN MARINATION R-VALUE COOLING CONTROL S. Prog. Switch C. COOLING Below Into columns above. TIME CONTROL S. Prog. Switch C. COOLING Below Into columns above. TIME CONTROL S. Prog. Switch C. COOLING Below Into columns above. TIME CONTROL S. PROG. SPACE IN MARINATION R-VALUE C. COURS IN ARTIC COLUMNS S. PROG. SWITCH C. COURS IN A | | | | | | | | | |
| ### TIME CONTROL ### CODE TABLES: Enter code from table below into columns above. ### CODE TABLES: Enter code from table below into columns above. ### CODE TABLES: Enter code from table below into columns above. ### CODE TABLES: Enter code from table below into columns above. ### CODE TABLES: Enter code from table below into columns above. ### CODE TABLES: Enter code from table below into columns above. ### CODE TABLES: Enter code from table below into columns above. ### CODE TABLES: Enter code from table below into columns above. ### CODE TABLES: Enter code from table below into columns above. ### CODE TABLES: Enter code from table below into columns above. ### CODE TABLES: Enter code from table below into columns above. ### CODE TABLES: Enter code from table below into columns above. ### CODE TABLES: Enter code from table below into columns above. ### CODE TABLES: Enter code from table below into columns above. ### CODE TABLES: Enter code from table below into columns above. ### CODE TABLES: Enter code from table below into columns above. ### CODE TABLES: Enter code from table below into columns above. ### CODE TABLES: Enter code from table below into columns above. ### CODE TABLES: Enter code from table below into columns above. ### CODE TABLES: Enter code from table below into columns above. ### CODE TABLES: Enter code from table below into columns above. ### CODE TABLES: Enter code from table below into columns above. #### CODE TABLES: Enter code from table below into columns above. #### CODE TABLES: Enter code from table below into columns above. #### CODE TABLES: Enter code from table below into columns above. #### CODE TABLES: Enter code from table below into columns above. #### CODE TABLES: Enter code from table below into columns above. #### CODE TABLES: Enter code from table below into columns above. #### CODE TABLES: Enter code from table below into columns above. #### CODE TABLES: Enter Code from table below into columns above. #### CODE TABLES: Enter Code from table | | Diff Tai | | rated) | | | | _ | |
| ### ATING EQUIPMENT TYPE ### AND MODEL NUMBER COOLING EQUIPMENT EFFICIENCY MAKE AND MODEL NUMBER COOLING EQUIPMENT EFFICIENCY MAKE AND MODEL NUMBER COOLING EQUIPMENT EFFICIENCY MAKE AND MODEL NUMBER COOLING DUCT LOCATION R-VALUE COOLING DU | | | | | | | | | |
| REATING EQUIPMENT EFFICIENCY COOLING EQUIPMENT TYPE Buill-Up VAV NA OOVERNAIRE OOVERNAIRE PPE INSULATION REQUIRED? PREATING DUCT LOCATION R-VALUE COOLING DUCT LOCATION R-VALUE DUCTS IN Attic 4.2 No TIME CONTROL SETBACK CTRL. ISOLATION ZONES FAN CONTROL S. Prog. Switch S. Both S. Prog. Switch | | | | | · · · · · · · · · · · · · · · · · · · | | | | |
| DOULING EQUIPMENT EFFICIENCY MAKE AND MODEL NUMBER PIPE INSULATION PROTECTED? HEAT PUMP THERMOSTAT? ELECTRIC HEAT? YAS MINIMUM POSITION CONTROL? SIMULTANEOUS HEAT / COOL? HEAT AND COOL SUPPLY RESET? OCCUMENTAL SUPPLY RESET? HEAT AND COOL SUPPLY RESET? OCTUMENT AND COUNTROL SETBACK CTRL. SOULT THE HEAT OF THE MENT OF | | | | | | | | | 1 |
| MAKE AND MODEL NUMBER PIPE INSULATION REQUIRED? PER ATING DUCT LOCATION R-VALUE COOLING DUCT LOCATION R-VALUE No CODE TABLES: Enter code from table below into columns above. TIME CONTROL SETBACK CTRL. ISOLATION ZONES FAN CONTROL S: Prog. Switch C: Occupancy Sensor B: Both Time CONTROL SETBACK CTRL. ISOLATION ZONES FAN CONTROL S: Prog. Switch C: Occupancy C: Cooling B: Both W: Warrant Timer M: Manual Timer M: Manual Timer D: Outside Air Cert. M: Out. Air Measure D: Demand Control N: Natural N: Natural Note: This shall be notes than Col. H on Method See Section 144(e):3 | | B.,, | | <i>,</i> | | | | | 1 |
| MAKE AND MODEL NUMBER PIPE INSULATION PROTECTED? HEATING DUCT LOCATION R-VALUE COOLING DUCT LOCATION R-VALUE DUCTS IN ARTIC 4.2 DUCTS IN ARTIC 4.2 DUCTS IN ARTIC 4.2 DUCTS IN ARTIC 4.2 No CLINGROOF SPACE No CODE TABLES: Enter code from table below into columns above. HEAT PUMP THERMOSTAT? ELECTRIC HEAT? VAV MINIMUM POSITION CONTROL? SIMULTANEOUS HEAT / COOL? HEAT AND COOL SUPPLY RESET? HIGH EFFICIENCY? PIPE INSULATION REQUIRED? PIPE INSULATION REQUIRED? PIPE INSULATION REQUIRED? PIPE INSULATION PROTECTED? SEALED DUCTS IN CELLINGROOF SPACE? OCOVERNAIRE Yes Yes Ducts in Artic 4.2 No TIME CONTROL SETBACK CTRL. ISOLATION ZONES FAN CONTROL 1: Sensor Both Isolation Zones. PIPE NOUT AIR Measure BOTH IN ARTICLATION OUTDOOR DAMPER ECONOMIZER CONTROL SET ARTICLATION CONTROL 1: A Artic 4.2 VENTILATION OUTDOOR DAMPER ECONOMIZER CONTROL SET ARTICLATION CONTROL | | <u> Du</u> | | | | | | | 1 |
| PPEDUCT INSULATION REQUIRED? PPEDUCT INSULATION PROTECTED? HEATING DUCT LOCATION R-VALUE COOLING DUCT LOCATION R-VALUE Ducts in Attic 4.2 | | GOV | | E | | | | | 1 |
| PERTING DUCT LOCATION R-VALUE COOLING DUCT LOCATION R-VALUE CILINGAROOF SPACE CODE TABLES: Enter code from table below into columns above. CODE TABLES: Enter code from table below into columns above. TIME CONTROL SETBACK CTRL. ISOLATION ZONES FAN CONTROL SPROG. Switch C: Cooling Enter Number of Isolation Zones. TIME CONTROL SPROG. Switch C: Cooling Enter Number of Isolation Zones. PROG. Switch C: Cooling Isolation Zones. TY: Yes N: No M: Manual Timer M: Manual Timer M: Manual Timer M: Manual Timer M: Not Required C: Couling Isolation Zones. M: Manual Timer M: Manual Timer M: Manual Timer M: Waster M: Not Required C: Couling Isolation Zones. M: Manual Timer M: Manual Timer M: Waster M: Not Required M: Not Req | | | Vaa | - | | | | | |
| Ducts in Attic 4.2 Ducts in Attic 4.2 No COOLING DUCT LOCATION R-VALUE VESTED SEALED DUCTS IN CODE TABLES: Enter code from table below into columns above. Time Control SETBACK CTRL ISOLATION ZONES FAN CONTROL SIMULTANEOUS HEAT / COOL? HEAT AND COOL SUPPLY RESET? HIGH EFFICIENCY? PIPE INSULATION REQUIRED? PIPEDUCT INSULATION PROTECTED? SEALED DUCTS IN CEILING/ROOF SPACE? Ducts in Attic 4.2 No TIME CONTROL SETBACK CTRL ISOLATION ZONES FAN CONTROL SETBACK CTRL ISOLATION ZONES SETBACK CTRL ISOLATION ZONE | | | | | | | | | 1 |
| COOLING DUCT LOCATION R-VALUE VERIFIC SEALED DUCTS IN CODE TABLES: Enter code from table below into columns above. CODE TABLES: Enter code from table below into columns above. | | | | - | | | | | |
| CODE TABLES: Enter code from table below into columns above. HEAT PUMP THERMOSTAT? ELECTRIC HEAT? YAV MINIMUM POSITION CONTROL? SIMULTANEOUS HEAT / COOL? HEAT AND COOL SUPPLY RESET? HIGH EFFICIENCY? PIPE INSULATION REQUIRED? PIPEDUCT INSULATION PROTECTED? SEALED DUCTS IN CEILING/ROOF SPACE? No No TIME CONTROL SETBACK CTRL. ISOLATION ZONES FAN CONTROL S: Prog. Switch H: Heating C: Cooling Isolation Zones. S: Prog. Switch H: Heating C: Cooling Isolation Zones. W: VFD O: Other C: Curve M: Manual Timer VENTILATION OUTDOOR DAMPER ECONOMIZER O.A. CFM Enter Outdoor Air CFM. M: Out. Air Measure D: Demand Control N: Natural N: Natural No Demand Control N: Natural | | | | | | | | | |
| CODE TABLES: Enter code from table below into columns above. HEAT PUMP THERMOSTAT? ELECTRIC HEAT? VAV MINIMUM POSITION CONTROL? SIMULTANEOUS HEAT / COOL? HEAT AND COOL SUPPLY RESET? HIGH EFFICIENCY? PIPE INSULATION REQUIRED? PIPE/DUCT INSULATION PROTECTED? TIME CONTROL SETBACK CTRL. ISOLATION ZONES FAN CONTROL S: Prog. Switch H: Heating C: Cooling Isolation Zones. S: Both V: VFD O: Other C: Curve O: Other O: Ot | OOLING DUCT LOCATION R-VALUE | Ducts In A | | 4.2 | | | | | |
| HEAT PUMP THERMOSTAT? ELECTRIC HEAT? VAV MINIMUM POSITION CONTROL? SIMULTANEOUS HEAT / COOL? HEAT AND COOL SUPPLY RESET? HIGH EFFICIENCY? PIPE INSULATION REQUIRED? PIPE/DUCT INSULATION PROTECTED? SEALED DUCTS IN CEILING/ROOF SPACE? TIME CONTROL SETBACK CTRL. ISOLATION ZONES FAN CONTROL S: Prog. Switch O: Occupancy Sensor B: Both V: VFD O: Other C: Curve C: Cooling B: Both V: VFD O: Other C: Curve VENTILATION D: Air Balance C: Outside Air Cert, M: Out, Air Measure D: Demand Control N: Natural TIME CONTROL SETBACK CTRL. ISOLATION ZONES FAN CONTROL Enter Number of Isolation Zones. P: Variable Pitch V: VFD O: Other C: Curve VENTILATION D: Air Measure D: Demand Control N: Natural TIME CONTROL S: Prog. Switch C: Cooling B: Both V: VFD O: Other C: Curve M: Market Pictor M: Natural TIME CONTROL S: Prog. Switch C: Cooling B: Both V: VFD O: Other C: Curve M: Market Pictor M: Air M: Air M: Water N: Not Required EC: Economizer Control See Section MECH-3. | EILING/ROOF SPACE | L | No | | | | | | |
| HEAT PUMP THERMOSTAT? ELECTRIC HEAT? VAV MINIMUM POSITION CONTROL? SIMULTANEOUS HEAT / COOL? HEAT AND COOL SUPPLY RESET? HIGH EFFICIENCY? PIPE INSULATION REQUIRED? PIPE/DUCT INSULATION PROTECTED? SEALED DUCTS IN CEILING/ROOF SPACE? TIME CONTROL SETBACK CTRL. ISOLATION ZONES FAN CONTROL S: Prog. Switch O: Occupancy Sensor B: Both V: VFD O: Other C: Curve C: Cooling B: Both V: VFD O: Other C: Curve VENTILATION D: Air Balance C: Outside Air Cert, M: Out, Air Measure D: Demand Control N: Natural TIME CONTROL SETBACK CTRL. ISOLATION ZONES FAN CONTROL Enter Number of Isolation Zones. P: Variable Pitch V: VFD O: Other C: Curve VENTILATION D: Air Measure D: Demand Control N: Natural TIME CONTROL S: Prog. Switch C: Cooling B: Both V: VFD O: Other C: Curve M: Market Pictor M: Natural TIME CONTROL S: Prog. Switch C: Cooling B: Both V: VFD O: Other C: Curve M: Market Pictor M: Air M: Air M: Water N: Not Required EC: Economizer Control See Section MECH-3. | COD | E TABLES: | Enter co | de from tabl | le below into colu | mns above. | | | |
| ELECTRIC HEAT? VAV MINIMUM POSITION CONTROL? SIMULTANEOUS HEAT / COOL? HEAT AND COOL SUPPLY RESET? HIGH EFFICIENCY? PIPE INSULATION REQUIRED? PIPE/DUCT INSULATION PROTECTED? SEALED DUCTS IN CEILING/ROOF SPACE? S. Prog. Switch C. Cooling B. Both V: VFD O: Other C: Curve B: Both V: VFD O: Other C: Curve C. Cooling B: Both V: VFD O: Other C: Curve A: Air A: Air A: Air Control M: Manual Timer C. Cooling B: Both V: VFD O: Other C: Curve C: Curve V: VFD O: Other C: Curve C: Curve V: VFD O: Other C: Curve V: VFD O: Other C: Curve C: Cooling B: Both V: VFD O: Other C: Curve V: VFD O: Other C: Curve C: Cooling B: Both V: VFD O: Other C: Curve N: Not Required EC: Economizer Control See Section MECH-3. | HEAT DUMP THERMOSTAT? | | TIME | CONTROL | SETBACK CTR | L. ISOLATION | ZONES | FAN CO | ONTROL |
| V: VFD SIMULTANEOUS HEAT / COOL? HEAT AND COOL SUPPLY RESET? HIGH EFFICIENCY? PIPE INSULATION REQUIRED? PIPEDUCT INSULATION PROTECTED? SEALED DUCTS IN CEILING/ROOF SPACE? Sensor M: Manual Timer V: VFD O: Other C: Curve | | | S: Prog. | Switch | | (| | | |
| HEAT AND COOL SUPPLY RESET? HIGH EFFICIENCY? PIPE INSULATION REQUIRED? PIPEDUCT INSULATION PROTECTED? SEALED DUCTS IN CEILING/ROOF SPACE? N: No VENTILATION OUTDOOR DAMPER ECONOMIZER A: Auto A: Air Enter Outdoor Air CFM. Note: This shall be no EC: Economizer Control See Section 144(e)3 | VAV MINIMUM POSITION CONTROL? | | | | | ISUIGURI ZI | ины. | V: VFD | |
| HEAT AND COOL SUPPLY RESET? HIGH EFFICIENCY? PIPE INSULATION REQUIRED? PIPE/DUCT INSULATION PROTECTED? SEALED DUCTS IN CEILING/ROOF SPACE? VENTILATION OUTDOOR DAMPER ECONOMIZER O.A. CFM A: Air Enter Outdoor Air Cert. M: Out. Air Measure D: Demand Control N: Natural VENTILATION OUTDOOR DAMPER ECONOMIZER O.A. CFM A: Air Enter Outdoor Air CFM. Not Required Note: This shall be not Control See Section N: Natural VENTILATION OUTDOOR DAMPER ECONOMIZER O.A. CFM A: Air Enter Outdoor Air CFM. Not Required Note: This shall be not Control See Section NECH-3. | SIMULTANEOUS HEAT / COOL? | Y: Yes | M: Man | ıal Timer | | | | | C: Curve |
| PIPE INSULATION REQUIRED? PIPE/DUCT INSULATION PROTECTED? SEALED DUCTS IN CEILING/ROOF SPACE? C: Outside Air Cert. M: Out. Air Measure D: Demand Control N: Natural C: G: Gravity M: Water H: Not Required EC: Economizer Less than Col. H on Control See Section MECH-3. | | | VEN | TILATION | | | IIZER | 0.4 | CFM |
| PIPEDUCT INSULATION PROTECTED? SEALED DUCTS IN CEILING/ROOF SPACE? D: Demand Control Control Control See Section MECH-3. | | | | | 1 | W. Water | | CFM. | |
| SEALED DUCTS IN CEILING/ROOF SPACE? N: Natural Control See Section MECH-3. 144(e)3 | | | | | | | | | |
| | | 7 | | | | | Section | MECH-3. | |
| CICA IO FICLO - FOI GUIIVIII CEVALUIIEIIF OSE CIIII | | | Use O | niv | | Hadolo | | | |

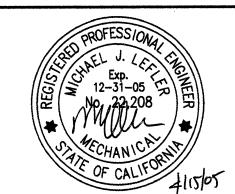
| | WI 11/11/11 | ICAL MANDATORY MEASURES Pa | AIL I VI Z | MECH-MI |
|-------|-------------------|---|-----------------|-------------|
| ROJEC | CT HAME | flountian View Senior Center | DA ⁻ | 2/11/2005 |
| | DESCRIP | TION | Designer | Enforcement |
| E | Equipme | nt and Systems Efficiencies | | |
| X | 111 | Any appliance for which there is a California standard established in the Appliance Efficiency Regulations will comply with the applicable standard. | | |
| X | 115(a) | Fan type central furnaces shall not have a pilot light. | | |
| X | 123 | Piping, except that conveying fluids at temperatures between 60 and 186 degrees Fahrenheit, or within HVAC equipment, shall be insulated in accordance with Standards Section 123. | | |
| X | 124 | Air handling duct systems shall be installed and insulated in compliance with | | |
| , | Controls | Sections 601, 603 and 604 of the Uniform Mechanical Code. | | |
| • | 122(e) | Each space conditioning system shall be installed with one of the following: | | |
| X | • • | Each space conditioning system serving building types such as offices and manufacturing facilities (and all others not explicitly exempt from the requirements of Section 112 (d)) shall be installed with an automatic time switch with an accessible manual override that allows operation of the system during off-hours for up to 4 hours. The time switch shall be capable of programming different schedules for weekdays and weekends; incorporate an automatic holiday "shut-off" feature that turns off all loads for at least 24 hours, then resumes the normally scheduled operation; and has program backup capabilities that prevent the loss of the device's program and time setting for at least 18 hours if power is interrupted; or | | |
| X | 12 2(e)1B | An occupancy sensor to control the operating period of the system; or | | |
| X | 122(e)1C | A 4-hour timer that can be manually operated to control the operating period of the system. | | |
| X | 122(e)2 | Each space conditioning system shall be installed with controls that temporarily restart and temporarily operate the system as required to maintain a setback heating and/or a setup cooling thermostat setpoint. | | |
| X | 122(g) | Each space conditioning system serving multiple zones with a combined conditioned floor area more than 25,000 square feet shall be provided with isolation zones. Each zone: shall not exceed 25,000 square feet; shall be provided with isolation devices, such as valves or dampers, that allow the supply of heating or cooling to be setback or shut off independently of other isolation areas; and shall be controlled by a time control device as described above. | | |
| X | 122(a&b) | Each space conditioning system shall be controlled by an individual thermostat that responds to temperature within the zone. Where used to control heating, the control shall be adjustable down to 55 degrees F or lower. For cooling, the control shall be adjustable up to 86 degrees F or higher. Where used for both heating and cooling, the control shall be capable of providing a deadband of at least 5 degrees F within which the supply of heating and cooling is shut off or reduced to a minimum. | | |
| X | 122(e) | Thermostats shall have numeric setpoints in degrees Fahrenheit (F) and adjustable estpoint stops accessible only to authorized personnel. | | |
| | 112(b) | Heat pumpe shall be installed with controls to prevent electric resistance supplementary heater operation when the heating load can be met by the heat pump alone. | | |

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| X | 121(e) | Controls shall be provided to allow outside air dampers or devices to be operated at the ventilation rates as specified on these plans. | | |
| X | 122(f) | Gravity or automatic dampers interlocked and closed on fan shutdown shall be provided on the outside air intakes and discharges of all space conditioning and exhaust systems. | | |
| X | 122(f) | All greatly ventilating systems shall be provided with automatic or readily accessible manually operated dampers in all openings to the outside, except for combustion air openings. | | |
| X | 121(1)1 | Air Balancing: The system shall be balanced in accordance with the National Environmental Balancing Bureau (NEBB) Procedural Standards (1983), or Associated Air Balance Council (AABC) National Standards (1995); or | | |
| X | 121(1)2 | Outside Air Certification: The system shall provide the minimum outside air as shown on the mechanical drawings, and shall be measured and certified by the installing licensed C-20 mechanical contractor and certified by (1) the design mechanical angineer, (2) the installing licensed C-20 mechanical contractor, or (3) the person with overall responsibility for the design of the ventilation system; or | | |
| X | 121(1)3 | Outside Air Measurement: The system shall be equipped with a calibrated local or remote device capable of measuring the quantity of outside air on a continuous basis and displaying that quantity on a readily accessible display divice; or | | |
| X | 121(1)4 | Another method approved by the Commission. | | |
| 5 | Service ' | Water Heating Systems | | |
| X | 113(b)2 | If a circulating hot water system is installed, it shall have a control capable of automatically turning off the circulating pump(s) when hot water is not required. | | |
| X | 11 3 (b)38 | Lavatories in restrooms of public facilities shall be equipped with controls to limit the outlet temperature to 110 degrees F. | | |
| X | 113(b)3C | Lavatories in restrooms of public facilities shall be equipped with one of the following: | | |
| | | Outlet devices that limit the flow of hot water to a maximum of 0.5 gallons per minute. | | |
| | | Foot actuated control values, and outlet devices that limit the flow of hot water to a maximum of 8.75 gallone per minute. | | |
| | | Proximity sensor actuated control valves, and outlet devices that limit the flow of hot water to a maximum of 0.75 gallons per minute. | | |
| | | Self-closing valves, and outlet devices that limit the flow of hot water to a maximum of 2.5 gallons per minute, and 8.25 gallons/cycle (circulating system). | | |
| | | Self-closing valves, and outlet devices that limit the flow of hot water to a maximum of 2.5 gallons per minute, and 9.58 gallons/cycle (non-circulating system). | | |
| | | Self-closing values, and outlet devices that limit the flow of hot water to a maximum of 2.5 gallons per minute, and 6.75 gallons/cycle (foot switches and proximity sensor controls). | | |
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MOUNTAIN VIEW SENIOR CENTER

APRIL 18, 2005

REVISIONS:

CONSTRUCTION SET

SHEET TITLE:

TITLE 24
ENERGY
CALCULATIONS

DRAWN BY: MN SHEET M5.

CHECKED BY: MJL M5.

JOB NO: 0314.10